Designation: NCIB 8455 [DSM 14882]
Deposited Name: Ferrobacillus ferrooxidans

Leathen and Braley

Product Description: Type strain. Formerly Thiobacillus ferrooxidans. Organism used in genome sequencing project.

Medium

ATCC® Medium 2039: Acidithiobacillus ferrooxidans Medium

Growth Conditions

Temperature: 26°C
Atmosphere: Aerobic

Propagation Procedure

1. Incubate test tube cultures under above conditions upon receipt. It is helpful to incubate test tubes in a slanted position to increase gas exchange in broth. Transfer culture to fresh media within one week of arrival.
2. Gently vortex the test-tube to dislodge the iron that has oxidized onto the glass. Aseptically withdraw approximately 1.0 mL of the broth culture and transfer into 5 mL of fresh broth.
3. Incubate the broth either on a shaker or in a static and slanted position.
4. Growth is evident within one week, when yellow-orange iron oxide deposits are observed.
5. Transfer the culture approximately every two weeks.

Notes

The cells are motile and rod-shaped.

Additional information on this culture is available on the ATCC® web site at www.atcc.org.

References

References and other information relating to this product are available online at www.atcc.org.

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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Product Sheet

Acidithiobacillus ferrooxidans (ATCC® 23270™)

Please read this FIRST

Storage Temp.
Frozen: -80°C or colder
Freeze-Dried: 2°C to 8°C
Live Culture: See Propagation Section

Biosafety Level 1

Intended Use

This product is intended for research use only. It is not intended for any animal or human therapeutic or diagnostic use.

Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: Acidithiobacillus ferrooxidans (ATCC® 23270™)